## **CLAIMS**



1. A system for determining and displaying icons representing text files,

2 comprising:

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4 a content extractor for determining the content of all or parts of a text file by

5 examining words in the file;

6

7 a means for associating the content with an icon;

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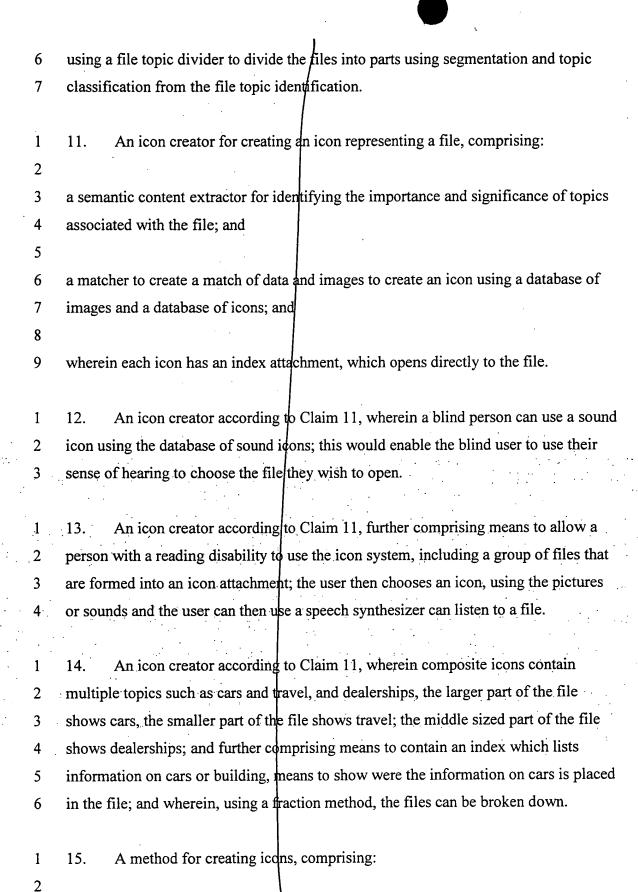
- 9 a selector for selecting an icon to represent the text file or portion of a file on the basis
- of the determined content of the text file; and

11

- 12 a display for displaying the selected icons to represent the text file.
  - 1 2. A system according to Claim 1, wherein the selector includes means for
- 2 selecting the closest one of a group of available icons to represent the text file.
- 1 3. A system according to Claim 1, wherein the content extractor includes means
- 2 for determining several topic icons for the text file.
- 1 4. A system according to Claim 3, wherein the topic icons form a composite icon
- 2 associated with a different parts of the text file.
- 1 5. A system according to Claim 3, wherein the several icons are sensed by
- 2 different senses.
- 1 6. A system according to Claim 1, wherein the icons facilitate use of a computer
- 2 by people with various disabilities.

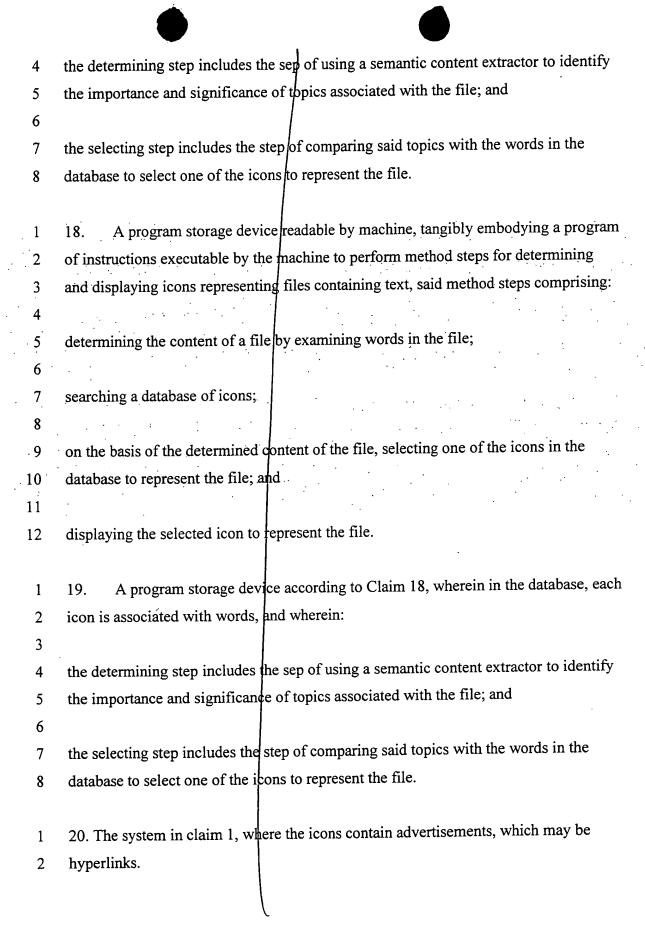
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1	7. A system for representing contents of computer files via icons, the system
2	comprising:
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4.	a computer memory including a group of directories with lists of files;
5	
6	a semantic content extractor for extracting information and content from the files; and
7	
8	a module for creating icons representing the files on the basis of the information and
9	content extracted by the semantic content extractor.
1	8. A system according to Claim 7, wherein the semantic content extractor
2	includes:
3	
4	a module that associates with a text file a language model, and word, key words and
5	key phrases counts;
6	
7	a topic identifier that uses the language model and counts to identify a topic; and
8	
9	a module that partitions a text in a file by topic count.
1.	9. A system according to Claim 8, wherein the topic identifier uses likelihood
2 .	ratio to partition texts in parts by topics; likelihood in this ratio are defined by using
3 .	probabilities of words from language models of the text in a file and language models
4	for various topics that are stored in the database.
	the control of the co
1	10. A method for creating a composite icon to allow greater access to computer
2	files, comprising the steps of:
3	
4	using a file topic identification to perform segmentation and topic classification; and
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3	generating a list of files;
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5	reading the content of each file;
6	
7	attaching topics to each file;
8	
9 .	generating icons for the files;
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11	if several topics, creating a composite icon containing many topics;
12	
13 -	creating an index of topics;
14	
15	printing a list of icons near file names; and
16	
17	creating a list of icons to list files.
1	16. A method of determining and displaying icons representing files containing
2	text, the method comprising the steps of:
3	
4	determining the content of a file by examining words in the file;
5	
6	searching a database of icons;
7	
8	on the basis of the determined content of the file, selecting one of the icons in the
9	database to represent the file; and
10	
11	displaying the selected icon to represent the file.
1	17. A method according to Claim 16, wherein in the database, each icon is
2	associated with words, and wherein:
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- 1 21. The system in claim 20 where users pay less for the system if ads are included.
- AI
- 1 22. The system in claim 20 where advertiser pays manufacturer or seller of system.